

IN THE CLAIMS

The following is a complete listing of the claims, and replaces all earlier versions and listings.

1. (Currently Amended) ~~Method~~ A method of adjusting at least one parameter for ~~the~~ compression of data representing physical quantities into compressed data, the compressed data then being coded according to a coding mode in order to protect ~~them against the compressed data from~~ transmission errors, ~~characterised in that it includes the method including~~, as from a required compressed data size (R_r), the steps of:

[[-]] determining (~~E2~~) at least one characteristic (S) of ~~the~~ said coding mode; [[,]]

[[-]] determining (~~E5, E6~~) an effective size (R) of the compressed data according to the required size and ~~said the~~ at least one characteristic; and [[,]]

[[-]] adjusting at least one compression parameter (~~E7~~) according to the effective size.

2. (Currently Amended) ~~Method~~ A method of compressing data representing physical quantities into compressed data, and coding the compressed data in order to protect ~~them against the compressed data from~~ transmission errors, ~~characterised in that it includes the method including~~, as from a required compressed data size (R_r), the steps of:

[[-]] determining (~~E2~~) at least one characteristic (~~S~~) of ~~the~~ said coding mode; [[,]]

[[-]] determining (~~E5, E6~~) an effective size (~~R~~) of the compressed data according to the required size and ~~said the~~ at least one characteristic; [[,]]

[[-]] adjusting (~~E7~~) at least one compression parameter according to the effective size; [[,]]

[[-]] compressing (~~E7~~) the data; and [[,]]

[[-]] coding (~~E9~~) the compressed data.

3. (Currently Amended) ~~Method~~ The method according to Claim 1 or 2, ~~characterised in that~~ which the required size is determined automatically.

4. (Currently Amended) ~~Method~~ The method according to any one of Claims 1 or 2, ~~characterised in that~~ which the required size is determined according to constraints related to ~~the~~ subsequent decoding and decompression of the data.

5. (Currently Amended) ~~Method~~ The method according to any one of Claims 1 or 2, ~~characterised in that the~~ which said coding mode processes the data by groups of predetermined length, and ~~said the~~ at least one characteristic (~~S~~) of the said coding mode is the predetermined length.

6. (Currently Amended) ~~Method~~ The method according to any one of Claims 1 or 2, ~~characterised in that the~~ which said coding mode is a turbocoding and the characteristic (S) is an interleaving length of the turbocoding.

7. (Currently Amended) ~~Method~~ The method according to any one of Claims 1 or 2, ~~characterised in that the~~ which said coding mode is a convolutional coding.

8. (Currently Amended) ~~Method~~ The method according to any one of Claims 1 or 2, ~~characterised in that~~ which the adjustment of at least one compression parameter is a control of the throughput (E7) of the compressed data in order to obtain the effective size.

9. (Currently Amended) ~~Method~~ The method according to any one of Claims 1 or 2, ~~characterised in that~~ which the compression parameter is the effective size.

10. (Currently Amended) ~~Method~~ The method according to any one of Claims 1 or 2, ~~characterised in that~~ which the compression parameter is the resolution of the data after ~~their~~ decompression.

11. (Currently Amended) ~~Method~~ The method according to any one of Claims 1 or 2, ~~characterised in that~~ which the compression parameter is a ~~quantisation~~ quantization step.

12. (Currently Amended) ~~Method~~ The method according to Claim 6, ~~characterised in that~~ which the effective size (R) is an integer multiple of the interleaving length (S).

13. (Currently Amended) ~~Method~~ The method according to any one of Claims 1 or 2, ~~characterised in that~~ which the effective size (R) is determined by rounding the required size (R_r).

14. (Currently Amended) ~~Device~~ A device for adjusting at least one parameter for compressing data representing physical quantities into compressed data, the compressed data then being coded according to a coding mode in order to protect ~~them~~ against the compressed data from transmission errors, ~~characterised in that it has~~ comprising:

[[~~-~~]] means (~~40, 41~~) of determining at least one characteristic (S) of ~~the~~ said coding mode; [[~~,~~]]

[[~~-~~]] means (~~40~~) of determining an effective size (R) of the compressed data according to a required compressed data size (R_r) and ~~said~~ the at least one characteristic; and [[~~,~~]]

[[~~-~~]] means (~~26~~) of adjusting at least one compression parameter according to the effective size.

15. (Currently Amended) ~~Device~~ A device for compressing data representing physical quantities, and coding the compressed data in order to protect ~~them~~ against the compressed data from transmission errors, ~~characterised in that it has~~ comprising:

[[-]] means ~~(40, 41)~~ of determining at least one characteristic ~~(S)~~ of ~~the~~ said coding mode; [[,]]

[[-]] means ~~(40)~~ of determining an effective size ~~(R)~~ of the compressed data according to a required compressed data size ~~(R_r)~~ and ~~said~~ the at least one characteristic; [[,]]

[[-]] means ~~(26)~~ of adjusting at least one compression parameter according to the effective size; [[,]]

[[-]] means ~~(2)~~ of compressing the data; and [[,]]

[[-]] means ~~(3)~~ of coding the compressed data.

16. (Currently Amended) ~~Device~~ The device according to Claim 14 or 15, ~~characterised in that it is~~ adapted to determine the required size automatically.

17. (Currently Amended) ~~Device~~ The device according to any one of Claims 14 or 15, ~~characterised in that it is~~ adapted to determine the required size according to constraints related to ~~the~~ subsequent decoding and decompression of the data.

18. (Currently Amended) ~~Device~~ The device according to any one of Claims 14 or 15, ~~characterised in that the~~ which said coding means process the data by

groups of predetermined length, and ~~said~~ the at least one characteristic (S) of ~~the~~ said coding mode is the predetermined length.

19. (Currently Amended) ~~Device~~ The device according to any one of Claims 14 or 15, ~~characterised in that the~~ which said coding means use a turbocoding ~~whose~~ having a characteristic (S) which is an interleaving length of the turbocoding.

20. (Currently Amended) ~~Device~~ The device according to any one of Claims 14 or 15, ~~characterised in that the~~ which said coding means use a convolutional coding.

21. (Currently Amended) ~~Device~~ The device according to any one of Claims 14 or 15, ~~characterised in that the~~ which said means (26) of adjusting at least one compression parameter use a control of the throughput of the compressed data in order to obtain the effective size.

22. (Currently Amended) ~~Device~~ The device according to any one of Claims 14 or 15, ~~characterised in that it is~~ adapted to consider a compression parameter which is the effective size.

23. (Currently Amended) ~~Device~~ The device according to any one of Claims 14 or 15, ~~characterised in that it is~~ adapted to consider a compression parameter which is the resolution of the data after ~~their~~ decompression.

24. (Currently Amended) ~~Device~~ The device according to any one of Claims 14 or 15, ~~characterised in that it is~~ adapted to consider a compression parameter which is a ~~quantisation~~ quantization step.

25. (Currently Amended) ~~Device~~ The device according to Claim 19, ~~characterised in that it is~~ adapted to consider an effective size (R) which is an integer multiple of the interleaving length (S).

26. (Currently Amended) ~~Device~~ The device according to any one of Claims 14 or 15, ~~characterised in that it is~~ adapted to consider an effective size (R) which is determined by rounding the required size (R_T).

27. (Currently Amended) ~~Adjustment~~ The device according to Claim 14, ~~characterised in that the~~ which said determination and adjustment means are incorporated in:

[[-]] a microprocessor (~~100~~),

[[-]] a read only memory (~~102~~) containing a program for processing the data,

and

[[-]] a random access memory (~~103~~) containing registers adapted to record variables modified during the running of said program.

28. (Currently Amended) ~~Data compression and coding~~ A device according to Claim 15, ~~characterised in that the~~ which said determination, adjustment, compression and coding means are incorporated in:

[[-]] a microprocessor (~~100~~),

[[-]] a read only memory (~~102~~) containing a program for processing the data,
and

[[-]] a random access memory (~~103~~) containing registers adapted to record variables modified during the running of said program.

29. (Currently Amended) ~~System~~ A system including a device according to any one of Claims 14 or 15, and a second corresponding data decoding and decompression device, ~~characterised in that~~ which the required size is determined according to constraints related to the decoding and decompression of the data.

30. (Currently Amended) ~~Apparatus (10)~~ An apparatus for processing a digital image, ~~characterised in that it has~~ having means adapted to implement the method according to any one of Claims 1 or 2.

31. (Currently Amended) ~~Apparatus (10)~~ An apparatus for processing a digital image, ~~characterised in that it includes~~ including the device according to any one of Claims 14 or 15.

32. (Currently Amended) ~~Storage~~ A storage medium storing a program for implementing the method according to any one of claims 1 or 2.

33. (Canceled)

34. (Currently Amended) ~~Storage~~ The storage medium according to claim 32, characterised in that which said storage medium is a floppy disk or a CD-ROM.